

the driver moves his head he is not blinded, since the path of the light is dimmed before it actually reaches the mirror.--.

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2/2/07  
Page <sup>6</sup>7 change "The Visibility Enhancing Method (VEM) offers automatic image enhancement to common optics in-use today at various visibility conditions. By using devices such as the Light Control Panel (LCP), the VEM provides the ability to control separately some or all picture element, while keeping the other elements almost intact. In the Visibility Enhancing Method (VEM), a Light Control Panel (LCP) 32 is used to generate an active pixilated panel (Fig 3).

The Light Control Panel (LCP) produces the selective image elements and an optical array collimates the image elements and optically directs them to the LCP's focal plane. The image is transferred through the LCP (creating a sub-image) and via the complementary collimating optical array towards the observer eyes or to another optical system. Typically the optical power (magnification) of the system is one. The same collimating optics used for the complementary optics can be used to compensate for geometric distortion.

The LCP consists of pixilated array with a Thin Film (TF) light sensitive device for each pixel. Each pixel's transparency is controlled by the amount of light that shines on it. The panel can be made of transparency-controlled material 28, comprised of transparent pixel electrodes 27, controlled by embedded TFT Light Sensitive Elements (LSE). The transparency of all the elements (Contrast) can be controlled by the magnitude of the voltage that drives the LCP. The TF active element is attached to each Pixel (structure element) to precisely control it. The row and column electrodes used to control the pixels can be formed on the same substrate as the TF array. The driving signals are usually applied to the row (X) electrode of the pixel, and the contrast signal to its column (Y). "

to

-- The Visibility Enhancing Method (VEM) is using a Light Control Panel (LCP) 32, to generate an active pixilated panel (Fig 3). The LCP may be constructed in a similar process as a Flat Panel Display (FPD) which is well known in the art. The panel can be made of transparency-controlled material 28, encapsulated between two transparent electrodes, transparent electrode window 21 and a matrix array of